

Name	Ferdinand Schmidt-Kaler	
Department	Institute of Quantum Physics, University of Mainz QUANTUM, Institute of Quantum Physics, University of Mainz, Staudingerweg 7, Mainz fsk@uni-mainz.de	

Education

1989-1992	<i>PhD student with T. Hänsch, MPQ Garching</i>
1989	<i>Diploma in Physics at the Technical University of Munich and MPI for Quantum Optics (MPQ) in Garching with G. Rempe, H. Walther</i>
1986	<i>Study of Physics, Technical University of Munich</i>
1985-1986	<i>Study of Physics, Friedrich-Wilhelm University of Bonn</i>
1983-1984	<i>Study of Physics, Ruhr-University of Bochum</i>

Positions held

Since 2017	<i>Member of the Australian Cluster of Excellence CQC2T</i>
Since 2012	<i>PI in the Cluster of Excellence PRISMA at Johannes Gutenberg-University, Mainz, Germany</i>
Since 2010	<i>Full Professor of Experimental Quantum Optics and Atomic Physics at Johannes Gutenberg-University Mainz & PI at Helmholtz Institute Mainz</i>
2005-2010	<i>Full Professor of Experimental Physics, Institute for Quantum Information Processing at the University of Ulm</i>
2001	<i>Habilitation and University Lecturer, University of Innsbruck, Austria</i>

Awards & Honours

2003	<i>Rudolf Kaiser Award</i>
1997	<i>Innovation Award by the Tyrolean Sparkasse</i>
1993	<i>Helmholtz Award for high precision measurements of fundamental constants by the Deutsche Physikalische Bundesanstalt Braunschweig</i>

Current editorial boards

PRL divisional editor, J. Mod. Phys. Editorial board member, EPJD Editorial board (until 2016) and Appl. Phys. B Special Issues

Memberships and academic functions

Since 2018	<i>Vorstandsrat der Deutschen Physikalischen Gesellschaft</i>
2017	<i>Organization of ITAMP workshop Quantum Thermodynamics, Harvard</i>
2016/17	<i>Local organization Spring Meeting of the German Phys. Society Mainz</i>
2016	<i>Panel member of QUTEGA</i>
2014	<i>Organization of ECTI conference Mainz</i>
2013	<i>Organization of QION 2013 Benasque</i>

Five selected publications

1. *M. Brune, F. Schmidt-Kaler, A. Maali, J. Dreyer, E. Hagley, J. Raimond, S. Haroche, Quantum Rabi oscillation: A direct test of field quantization in a cavity, Phys. Rev. Lett. 76(11), pp. 1800, 1996*
2. *F. Schmidt-Kaler, H. Häffner, M. Riebe, S. Gulde, G. Lancaster, T. Deuschle, C. Becher, C. Roos, J. Eschner, R. Blatt, Realization of the Cirac–Zoller controlled-NOT quantum gate, Nature 422(6930), pp. 408, 2003*
3. *M. Riebe, H. Häffner, C. Roos, W. Hänsel, J. Benhelm, G. Lancaster, T. Körber, C. Becher, F. Schmidt-Kaler, D. James, R. Blatt, Deterministic quantum teleportation with atoms, Nature 429(6993), pp. 734, 2004*
4. *G. Rempe, F. Schmidt-Kaler, H. Walther, Observation of sub-Poissonian photon statistics in a micromaser, Phys. Rev. Lett. 64(23), 2783, 1990*
5. *S. Gulde, M. Riebe, G. Lancaster, C. Becher, J. Eschner, H. Häffner, F. Schmidt-Kaler, I. Chuang, R. Blatt, Implementation of the Deutsch–Jozsa algorithm on an ion-trap quantum computer, Nature 421(6918), pp. 48, 2003*